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GRADING FOR *KHAKAN* SEEDS FOR OIL MILLING

UDC 633·85 KHA : 620·168

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MANAK BHAVAN, 9 BAHADUR SHAH ZAFAR MARG
NEW DELHI 110002

Price Rs 5·00 Gr 2

November 1978

Indian Standard

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Indian Standard

GRADING FOR *KHAKAN* SEEDS FOR OIL MILLING

0. FOREWORD

0.1 This Indian Standard was adopted by the Indian Standards Institution on 10 August 1978, after the draft finalized by the Oils and Oilseeds Sectional Committee had been approved by the Chemical Division Council and the Agricultural and Food Products Division Council.

0.2 *KHAKAN* seeds are obtained from *KHAKAN* also known as *PILU* tree (*Salvadora oleoides* Decne.). *KHAKAN* trees grow well in dry, sandy and saline tracts of Northern India. It is abundantly found in Gujarat (chiefly Saurashtra and Kutch regions), Rajasthan, Uttar Pradesh (mostly Agra, Mathura and Etawah districts), and parts of Haryana State. It is also found in parts of Madhya Pradesh and Andhra Pradesh. The flowering time of the tree is from January to April and the fruits ripen during May to June. The fruits when ripen are yellow and 4 to 5 mm in diameter.

0.3 The seeds are collected and stored after proper drying. The seed kernel contains up to 43 percent fat having greenish-brown colour and pungent odour resembling that of mustard oil. The seeds are decorticated and the fat is obtained by the process of expression and solvent extraction.

0.4 The specification for fat obtained from *KHAKAN* seeds is covered in IS : 8881-1978*.

0.5 This standard contains clause **5.1** which calls for agreement between the purchaser and the supplier.

0.6 In the preparation of this standard substantial assistance has been derived from data supplied by Khadi and Village Industries Commission, Bombay; Directorate of Oilseeds Development, Hyderabad; Regional Research Laboratory, Hyderabad; and the Oil Technological Research Institute, Anantapur which is gratefully acknowledged.

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*Specification for *KHAKAN* fat.

0.7 For the purpose of deciding whether a particular requirement of this standard is complied with, the final value, observed or calculated, expressing the result of a test or analysis, shall be rounded off in accordance with IS : 2-1960*. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

1. SCOPE

1.1 This standard prescribes requirements and methods of grading, sampling and test for *KHAKAN* seeds for oil milling.

2. TERMINOLOGY

2.1 For the purpose of this standard, the definitions given under **2** of IS : 3579-1966† shall apply.

3. GRADES

3.1 *KHAKAN* seeds shall be graded as follows, depending on the requirements as prescribed in **4**:

a) Grade 1, and
b) Grade 2.

4. REQUIREMENTS

4.1 The material shall be dervied from *KHAKAN* also known as *PILU* tree (*Salvadora oleoides* Decne.).

4.2 The material shall comply with the requirements given in Table 1.

5. PACKING

5.1 The material shall be supplied packed in clean, sound hessian bags or as agreed to between the purchaser and the supplier.

6. MARKING

6.1 The material shall be marked with the following particulars:

a) Name and grade of the material,
b) Mass of the material in bags,
c) The year of the crop, and
d) The source of supply.

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*Rules for rounding off numerical values (*revised*).
†Methods of test for oil seeds.

TABLE 1 REQUIREMENTS FOR *KHAKAN* SEEDS FOR OIL MILLING

(*Clauses* 4.2 *and* 8.1)

Sl No.	Characteristic	Requirement for Grade 1	Requirement for Grade 2	Method of Test, Ref to Cl No. in IS : 3579-1966*
(1)	(2)	(3)	(4)	(5)
i)	Damaged, slightly damaged, weevilled and dark seeds, percent by mass, *Max*	←—To be reported—→		4
ii)	Impurities, percent by mass, *Max*	2	5	
iii)	Other oilseeds	←—To be reported—→		
iv)	Shrivelled, immature and dead seeds, percent by mass, *Max*	7	10	
v)	Total of (i) to (iv)	8	12	—
vi)	Moisture content, percent by mass, *Max*	7	9	5.1
vii)	Fat content, percent by mass, *Min*	35	30	5.2
viii)	Acid value of extracted fat, *Max*	6	8	5.3

*Methods of test for oilseeds.

7. SAMPLING

7.1 Representative samples of the material shall be drawn as prescribed in IS : 4115-1967*.

8. TESTS

8.1 Tests shall be carried out as prescribed in IS : 3579-1966†. Reference to the relevant clauses of that standard is given in col 5 of Table 1.

8.2 Quality of Reagents — Unless specified otherwise, pure chemicals and distilled water (*see* IS : 1070-1977‡) shall be employed in the tests.

NOTE — ' Pure chemicals ' shall mean chemicals that do not contain impurities which affect the results of analysis.

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*Methods of sampling of oilseeds.

†Methods of test for oilseeds.

‡Specification for water for general laboratory use (*second revision*).

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